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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/715,122		11/18/2003	Tadayoshi Tominaga	03194	2753
23338	7590	04/05/2006		EXAM	INER
	•	•	HERTY & MACDONALD MAI, NGOCLAN THI		
1727 KING SUITE 105		Т		ART UNIT	PAPER NUMBER
ALEXAND		A 22314		1742	
				DATE MAILED: 04/05/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

**		Application No.	Applicant(s)	
		10/715,122	TOMINAGA ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Ngoclan T. Mai	1742	
Dania d fa	The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address	
Period fo		/ 10 OFT TO EVEIDE & MONTH	(A) OD TI HDTV (A) DAVO	
WHIC - Exte after - If NC - Failu Any	CORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAMES on the may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Of period for reply is specified above, the maximum statutory period water to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on 18 Ja	anuary 2006.		
2a)⊠	This action is <b>FINAL</b> . 2b) This	action is non-final.		
3)[	Since this application is in condition for allowar	nce except for formal matters, pr	osecution as to the merits is	
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposit	ion of Claims			
4)⊠	Claim(s) 1, 3 and 5-7 is/are pending in the app	lication.		
	4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5)	Claim(s) is/are allowed.			
6)⊠	Claim(s) 1,3 and 5-7 is/are rejected.			
	Claim(s) is/are objected to.			
8)[_]	Claim(s) are subject to restriction and/or	r election requirement.		
Applicat	ion Papers			
9)[	The specification is objected to by the Examine	r.		
10)	The drawing(s) filed on is/are: a) acce	epted or b) ☐ objected to by the	Examiner.	
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).	
_	Replacement drawing sheet(s) including the correct			
11)[	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.	
Priority (	under 35 U.S.C. § 119			
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).	
a)	☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority documents	s have been received.		
	2. Certified copies of the priority documents			
	3. Copies of the certified copies of the prior	•	ed in this National Stage	
* 6	application from the International Bureau		- 4	
	See the attached detailed Office action for a list	or the certified copies not receive	ea.	
Attachmen		<u></u>		
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summan Paper No(s)/Mail D		
3) 🔲 Infon	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Pr No(s)/Mail Date		Patent Application (PTO-152)	

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#### **DETAILED ACTION**

# Specification

1. The amendment filed 1/18/06 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: the surface roughness in micrometer in paragraphs [0026] in not supported by the specification because the specification as originally filed does disclose micrometer is the unit. In the last two line of Paragraph [0034] applicant discloses effective roughness is 14 micrometer or less and Figure 5 is cited. Figure 5 is believed to give support for the effective roughness. However this figure shows the results of the fatigues strength tests with regard to the valve samples (graphs of stress amplitude or fatigue strength Ms against a thick t (Fig. 2) of the hard oxide film). There is no showing of surface roughness in the figure.

Applicant is required to cancel the new matter in the reply to this Office Action.

### Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 3, 5-7 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. See above.

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## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 7 is rejected under 35 U.S.C. 102(b) as being anticipated by Dong et al. (U.S. Patent No. 6,210,807, now Dong)

Dong discloses a valve spring retainers for use in internal combustion engine (col. 3, I. 50-52) made of titanium, which has been treated by gas oxidation at a temperature in the range of 500-725 C for 0.5 to 100 hrs. The treated valve spring retainers each have adherent surface compound layer containing at least 50% by weight of oxides of titanium and a thickness of 0.2 to 2 microns, col. 3, I. 2-10. Dong does not specifically teach the surface roughness of the adherent surface compound layer, however since surface roughness is always equal to or less than surface thickness, the surface roughness of the adherent surface compound layer taught by Dong is less than 2 microns. While Dong does not teach the retainer made by the claimed process, it has been established that a product by process claim is directed to the product per se, no matter how actually made, *In re Kirao*, 190 USPQ 15 at 17 (footnote 3). See also *In re Thorpe*, 227 USPQ 964 (CAFC 1985), which makes it clear that it is the patentability of the final product per se which must be determined in a product by process claim and not the patentability of the process. An old or obvious product produced by a new method is not patentable as a product, whether claimed in a product by process claims or not. Note that applicant has the burden of proof in such case.

#### Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoclan T. Mai whose telephone number is (571) 272-1246. The examiner can normally be reached on 9:30-6:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ngoclan T. Mai Primary Examiner Art Unit 1742

n.m.